

AMENDMENTS TO SPECIFICATION

Please amend the paragraph beginning in line 8 on page 5,
as follows:

The method for automatic service composition of the present invention can automatically search services from at least one registered service specification to find a single service or compose a service flow according to a service request. The method of the present invention first receives a problem file established according to the service request and a domain file established according to at least one service specification. Objects can be declared in both the problem file and the domain file. The service request applies logic statements to define an initial state and a goal state, thus obtains a series of action execution sequence used for transforming the initial state to the goal state to accomplish the service request. Each service specification is used for executing an action which defines an action name, ~~zero or~~ and at least one input parameter[[,]]~~and zero~~ or at least one output parameter, wherein each parameter defines a parameter name and a data type. Therefore, these parameters can be utilized in

logical statements to define ~~zero or~~ and at least one precondition ~~and zero or~~ at least one effect. When the AI planning technology searches for executable process, it repeatedly determines if an action need to and when to be added into the process. At the same time, each parameter of the action needs to be bounded to an object with identical data type. If a set of objects can be connected to each parameter of the action and the status of the set of objects matches with the precondition of the action, the planning engine updates objects' status in this set according to effect of the action. Without declaring an object that is required by an action in the resulting plan, may cause a failure in generating a complete service execution plan. That's why the "new object problem" in AI planning technology is incurred.